## CLAIMS

1. A compound of Formula (1):

5 wherein:

Cy is a group of Formula (2):

$$\begin{array}{c} R_2 \\ R_3 \\ R_4 \\ R_5 \end{array} \qquad (2)$$

an optionally substituted heterocyclic ring,  $C_{3-7}$ cycloalkyl or phenyl;

 $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$  and  $R_5$  are hydrogen, halogen, hydroxy, amino, trifluoromethyl or nitrile and at least one of  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$  and  $R_5$  is halogen, trifluoromethyl or nitrile;

 $R_6$  is hydrogen, optionally substituted straight-chained or branched  $C_{1\text{--}3}$ alkyl, amino or hydroxy;

 $R_7$  is hydrogen, optionally substituted straight-chained or branched  $C_{1-3}$ alkyl, optionally substituted amino or hydroxy;

R<sub>a</sub> is hydrogen, methyl or ethyl;

 $R_9$  is optionally substituted straight-chained or branched  $C_{1-6}$ alkyl, optionally substituted straight-chained or branched  $C_{2-6}$ alkenyl, optionally substituted straight-chained or branched  $C_{2-6}$ alkynyl,  $C_{3-7}$ cycloalkyl or

optionally substituted phenyl;

 $R_{20}$  is hydrogen or straight-chained or branched  $C_{1-3}$ alkyl or  $R_9$  and  $R_{20}$  may together form  $C_{3-7}$ cycloalkyl;

 $R_{10}$  is hydrogen or straight-chained or branched 5  $C_{1-3}$ alkyl;

 $R_{11}$  is hydrogen, optionally substituted straight-chained or branched  $C_{1-3}$ alkyl, -CO-N( $R_{14}$ ) $R_{15}$ , carboxyl or an optionally substituted heterocyclic ring;

 $R_{12}$  is hydroxy or  $-OR_{16}$ ;

10  $R_{13}$  is hydrogen, straight-chained or branched  $C_{1-6}$ alkyl, straight-chained or branched  $C_{2-6}$ alkenyl, straight-chained or branched  $C_{2-6}$ alkynyl or a group of Formula (3):

$$R_{17}$$
 $R_{18}$  (3)

R<sub>14</sub> and R<sub>15</sub>, which may be the same or different, are hydrogen, optionally substituted straight-chained or branched  $C_{1-4}$ alkyl,  $C_{3-7}$ cycloalkyl, straight-chained or branched  $C_{1-4}$ alkyloxy, straight-chained or branched  $C_{1-4}$ alkylsulfonyl or a heterocyclic ring, or R<sub>14</sub> and R<sub>15</sub>, as -N(R<sub>14</sub>)R<sub>15</sub>, form optionally substituted 3- to 7-membered cyclic amine;

 $R_{16}$  is straight-chained  $C_{1-4}$ alkyl;

 $R_{17}$  is hydrogen or methyl;

 $R_{18}$  and  $R_{19}$  together form cycloalkyl or

25 C3.,cycloalkenyl;

X is carbonyl or methylene;

Y is carbonyl or methylene; provided that

when Cy is 3-indoly1,

- (i)  $R_{11}$  is an optionally substituted
- 5 heterocyclic ring; or
  - (ii)  $R_6$  is hydrogen,  $R_7$  is amino,  $R_8$  is methyl,  $R_9$  is isopropyl,  $R_{20}$  is hydrogen,  $R_{10}$  is methyl,  $R_{11}$  is carbamoyl,  $R_{12}$  is hydroxy,  $R_{13}$  is tert-butyl, X is carbonyl and Y is carbonyl, and
- when Cy is cyclohexyl or phenyl,  $R_{11}$  is an optionally substituted heterocyclic ring; or a hydrate or pharmaceutically acceptable salt thereof.
  - The compound according to claim 1,
  - wherein Cy in Formula (1) is a group of Formula (2);
- or a hydrate or pharmaceutically acceptable salt thereof.
  - 3. The compound according to claim 1, wherein Cy in Formula (1) is a group of Formula (2) in which at least one of  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$  and  $R_5$  is halogen and the others are hydrogen or hydroxy;
- 20 or a hydrate or pharmaceutically acceptable salt thereof.
- 4. The compound according to claim 1, wherein Cy in Formula (1) is a group of Formula (2) in which  $R_3$  is halogen or  $R_2$  and  $R_3$  are the same kind of halogen;
- or a hydrate or pharmaceutically acceptable salt thereof. 5. The compound according to claim 1, wherein Cy in Formula (1) is a group of Formula (2) in which  $R_3$  is halogen and  $R_1$ ,  $R_2$ ,  $R_4$  and  $R_5$  are hydrogen, or

 $R_{\rm 2}$  and  $R_{\rm 3}$  are the same kind of halogen and  $R_{\rm 1}$ ,  $R_{\rm 4}$  and  $R_{\rm 5}$  are hydrogen;

or a hydrate or pharmaceutically acceptable salt thereof.

- The compound according to claim 1,
- wherein Cy in Formula (1) is a group of Formula (2) in which at least one of  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$  and  $R_5$  is trifluoromethyl and the others are hydrogen, halogen or hydroxy;

or a hydrate or pharmaceutically acceptable salt thereof.

- 7. The compound according to claim 1, wherein Cy in Formula (1) is a group of Formula (2) in which at least one of  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$  and  $R_5$  is nitrile and the others are hydrogen, halogen or hydroxy; or a hydrate or pharmaceutically acceptable salt thereof.
- 15 8. The compound according to claim 1, wherein Cy in Formula (1) is a group of Formula (2) in which  $R_3$  is trifluoromethyl; or a hydrate or pharmaceutically acceptable salt thereof.
  - 9. The compound according to claim 1,
- 20 wherein Cy in Formula (1) is a group of Formula (2) in which  $R_3$  is nitrile;

or a hydrate or pharmaceutically acceptable salt thereof.

- 10. The compound according to claim 1,
- wherein Cy in Formula (1) is an optionally substituted
- 25 heterocyclic ring provided that when Cy is 3-indoly1,
  - (i)  $R_{11}$  is an optionally substituted heterocyclic ring; or
    - (ii)  $R_6$  is hydrogen,  $R_7$  is amino,  $R_8$  is methyl,  $R_9$  is

isopropyl,  $R_{20}$  is hydrogen,  $R_{10}$  is methyl,  $R_{11}$  is carbamoyl,  $R_{12}$  is hydroxy,  $R_{13}$  is tert-butyl, X is carbonyl and Y is carbonyl;

or a hydrate or pharmaceutically acceptable salt thereof.

5 11. The compound according to claim 1, wherein in Formula (1), Cy is  $C_{3-7}$ cycloalkyl provided that when Cy is cyclohexyl,  $R_{11}$  is an optionally substituted heterocyclic ring;

or a hydrate or pharmaceutically acceptable salt thereof.

- 10 12. The compound according to claim 1, wherein in Formula (1), Cy is phenyl and  $R_{11}$  is an optionally substituted heterocyclic ring; or a hydrate or pharmaceutically acceptable salt thereof.
  - 13. The compound according to any one of claims 1-12,
- wherein  $R_0$  in Formula (1) is hydrogen or methyl; or a hydrate or pharmaceutically acceptable salt thereof. 14. The compound according to any one of claims 1-13, wherein  $R_7$  in Formula (1) is hydrogen or optionally

substituted amino;

- or a hydrate or pharmaceutically acceptable salt thereof.

  15. The compound according to any one of claims 1-14,

  wherein  $R_8$  in Formula (1) is hydrogen or methyl;

  or a hydrate or pharmaceutically acceptable salt thereof.

  16. The compound according to any one of claims 1-15,
- wherein R, in Formula (1) is methyl, isopropyl, isobutyl, sec-butyl, tert-butyl, 3-pentyl, neopentyl, cyclohexyl, phenyl, benzyl, para-hydroxybenzyl, cyclohexylmethyl or para-fluorobenzyl;



or a hydrate or pharmaceutically acceptable salt thereof.

The compound according to any one of claims 1-16, wherein  $R_{20}$  in Formula (1) is hydrogen or methyl; or a hydrate or pharmaceutically acceptable salt thereof.

- 5 18. The compound according to any one of claims 1-17, wherein  $R_{10}$  in Formula (1) is hydrogen or methyl; or a hydrate or pharmaceutically acceptable salt thereof.
  - 19. The compound according to any one of claims 1-18, wherein  $R_{11}$  in Formula (1) is methyl, hydroxymethyl,
- carbamoylmethyl, methanesulfonylmethyl, ureidemethyl, sulfamoylaminomethyl, methanesulfonylaminomethyl, carbamoyl, ethylcarbamoyl, n-propylcarbamoyl, isopropylcarbamoyl, cyclopropylcarbamoyl, tertbutylcarbamoyl, 2-pyridylcarbamoyl, methoxycarbamoyl,
- 2-thiazolyl, 1,3,4-oxadiazol-2-yl, 1,2,4-oxadiazol-5-yl, 1,3,4-triazol-2-yl, 6-methyl-4-pyrimidinon-2-yl, methylcarbamoyl, methanesulfonylmethylcarbamoyl, methoxymethylcarbamoyl, 1-morpholinylcarbonyl, 4-carboxymethyl-1-piperazinecarbonyl, 4-
- ethoxycarbonylmethyl-1-piperazinedarbonyl or 4-methylsulfonyl-1-piperazinecarbonyl or a hydrate or pharmaceutically acceptable salt thereof. 20. The compound according to any one of claims 1-19, wherein  $R_{12}$  in Formula (1) is hydroxy;
- or a hydrate or pharmaceutically acceptable salt thereof. 21. The compound according to any one of claims 1-20, wherein  $R_{13}$  in Formula (1) is isopropyl, text-butyl (tBu), 1,1-dimethylpropyl or 1,1-dimethyl-2-propenyl;



## or a hydrate or pharmaceutically acceptable salt thereof...

22. The compound according to claim 1, wherein in Formula (1)

Cy is a group of Formula (2) in which at least one of  $R_1$ ,

5  $R_2$ ,  $R_3$ ,  $R_4$  and  $R_5$  is halogen and the others are hydrogen or hydroxy;

R<sub>6</sub> is hydrogen or methyl;

 ${\tt R},$  is hydrogen or optionally substituted amino;

R<sub>8</sub> is hydrogen or methyl;

10 R<sub>9</sub> is methyl, isopropyl, isobutyl, sec-butyl, tert-butyl, 3-pentyl, neopentyl, cyclohexyl, phenyl, benzyl, para-hydroxybenzyl, para-fluorobenzyl or cyclohexylmethyl; R<sub>20</sub> is hydrogen;

 $R_{10}$  is hydrogen or methyl;

- 15 R<sub>11</sub> is methyl, hydroxymethyl, carbamoylmethyl, methanesulfonylmethyl, ureidemethyl, sulfamoylaminomethyl, methanesulfonylaminomethyl, carbamoyl, methylcarbamoyl, ethylcarbamoyl, n-propylcarbamoyl, isopropylcarbamoyl, cyclopropylcarbamoyl, tert-butylcarbamoyl, 2-
- pyridylcarbamoyl, methanesulfonylmethylcarbamoyl,
  methoxymethylcarbamoyl, methoxycarbamoyl, 1morpholinylcarbonyl, 4-carboxymethyl-1-piperazinecarbonyl,
  4-ethoxycarbonylmethyl-1-piperazinecarbonyl, 4methylsulfonyl-1-piperazinecarbonyl, 2-thiazolyl, 1,3,4-
- oxadiazol-2-yl, 1,2,4-oxadiazol-5-yl, 1,3,4-triazol-2-yl or 6-methyl-4-pyrimidinon-2-yl;

 $R_1$ , is hydroxy;

 $R_{13}$  is isopropyl, tert-butyl (tBu), 1,1-dimethylpropyl or



1,1-dimethyl-2-propenyl;

or a hydrate or pharmaceutically acceptable salt thereof.

- 23. The compound according to claim 1 which is selected from the group of compounds consisting of Phe(4-F)-N-Me-
- Val-N-Me-Tyr(3-tBu)-NH<sub>2</sub>, Phe(4-Cl)-N-Me-Val-N-Me-Tyr(3-tBu)-NH<sub>2</sub>, Phe(3,4-F<sub>2</sub>)-N-Me-Val-N-Me-Tyr(3-tBu)-NH<sub>2</sub>, Phe(3-F)-N-Me-Val-N-Me-Tyr(3-tBu)-NH<sub>2</sub>, Phe(4-F)-N-Me-Val-N-Me-Tyr(3-tBu)-NHOMe, 2-((2-amino-3-(4-fluorophenyl)propionyl)-N-methylamino)-3-methylbutyric
- acid 2-(3-tertbutyl-4-hydroxyphenyl)-1-(2pyridylcarbamoyl)ethylamide, N-(2-(2-((2-amino-3-(4fluorophenyl)propionyl)-N-methylamino)-3-methylbutyrylamino)-3-(3-tBu-4-hydroxyphenyl)propyl)urea, N-(2(2-(2-amino-3-(4-fluorophenylpropanoyl-N-methylamino)-3-
- 15 methyl)butyrylamino)-3-(3-tertbutyl-4hydroxyphenyl)propyl)sulfamide, N-[2-(3-tertbutyl-4hydroxyphenyl)-1-(methanesulfonylaminomethyl)ethyl]-2-[N(4-fluorophenylalanyloyl)methylamino]-3-methylbutanamide,
  2-((2-amino-3-(4-fluorophenyl)propionyl)-N-methylamino)-3-
- methylbutyric acid 2-(3-t-butyl-4-hydroxyphenyl)-1carbamidemethylethylamide, 2-((2-amino-3-(4fluorophenyl)propionyl)-N-methylamino)-3-methylbutyric
  acid 2-(3-t-butyl-4-hydroxyphenyl)-1methanesulfonylmethylethylamide, 2-(2-((2-amino-3-(4-
- fluorophenyl)propionyl)-N-methylamino)-3-methylbutyrylamino)-3-(3-tBu-4-hydroxyphenyl)propanol, 2-(1-(2((2-amino-3-(4-fluorophenyl)propionyl)-N-methylamino)-3methyl-butyrylamino)-2-(3-tertbutyl-4-



hydroxyphenyl)ethyl)-6-methyl-4-pyrimidinone, 2-((2-amino-3-(4-fluorophenyl)propionyl)-N-methylamino)-3-methylbutyric acid 2-(3-t-butyl-4-hydroxyphenyl)-1-(1,3,4-oxadiazol-2-yl)ethylamide, 2-((2-amino-3-(4-

- fluorophenyl)propionyl)-N-methylamino)-3-methylbutyric
  acid 2-(3-t-butyl-4-hydroxyphenyl)-1-(1,2,4-oxadiazol-5yl)ethylamide, 2-((2-amino-3-(4-fluorophenyl)propionyl)-Nmethylamino)-3-methylbutyric acid 2-(3-tertbutyl-4hydroxyphenyl)-1-(thiazol-2-yl)ethylamide, 2-((2-amino-3-
- 10 (4-fluorophenyl)propionyl)-N-methylamino)-3-methylbutyric
  acid 2-(3-t-butyl-4-hydroxyphenyl)-1-(1,3,4-triazol-2yl)ethylamide, Tyr(2-F)-N-Me-Val-N-Me-Tyr(3-tBu)-NH<sub>2</sub>,
  Tyr(3-F)-N-Me-Val-N-Me-Tyr(3-tBu)-NH<sub>2</sub>, Phe(4-F)-N-Me-ValTyr(3-tBu)-NH<sub>2</sub>, N-Me-Phe(4-F)-N-Me-Val-Tyr(3-tBu)-NH<sub>2</sub>, N-
- Me-Phe(4-F)-N-Me-Val-N-Me-Tyr(3-tBu)-NHMe, N-Et-Phe(4-F)-N-Me-Val-N-Me-Tyr(3-tBu)-NHMe, Phe(4-F)-N-Me-Val-N-Et-Tyr(3-tBu)-NH<sub>2</sub>, N-Me-Phe(4-F)-N-Me-Val-N-Et-Tyr(3-tBu)-NH<sub>2</sub>, N-Et-Phe(4-F)-N-Me-Val-N-Et-Tyr(3-tBu)-NH<sub>2</sub>, Phe(4-F)-N-Me-Val-N-Et-Tyr(3-tBu)-NH<sub>2</sub>, Phe(4-F)-N-Me-Val-N-Et-Tyr(3-tBu)-NHMe, N-Me-Phe(4-F)-N-Me-Val-N-Et-
- Tyr(3-tBu)-NHMe, N-Et-Phe(4-F)-N-Me-Val-N-Et-Tyr(3-tBu)-NHMe, Phe(4-F)-N-Me-Val-Tyr(3-tBu)-NHtBu, Phe(4-F)-N-Me-Val-N-Me-Tyr(3-tBu)-NHCH $_2$ SO $_2$ CH $_3$ , Phe(4-F)-N-Me-Val-Tyr(3-tBu)-NHEt, N-Me-Phe(4-F)-N-Me-Val-Tyr(3-tBu)-NHEt, N-Et-

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Phe(4-F)-N-Me-Val-Tyr(3-tBu)-NHEt, Phe(4-F)-N-Me-Val
Tyr(3-tBu)-NHCH<sub>2</sub>OH, N-Me-Phe(4-F)-N-Me-Val-Tyr(3-tBu)
NHCH<sub>2</sub>OH, N-Et-Phe(4-F)-N-Me-Val-Tyr(3-tBu)-NHCH<sub>2</sub>OH, Phe(4-F)-N-Me-Val
F)-N-Me-Val-N-Me-Tyr(3-tBu)-NHEt, N-Me-Phe(4-F)-N-Me-Val
N-Me-Tyr(3-tBu)-NHEt, N-Et-Phe(4-F)-N-Me-Val-N-Me-Tyr(3-tBu)-NHCH<sub>2</sub>OH, N-Me-Phe(4-F)-N-Me-Val-N-Me-Tyr(3-tBu)-NHCH<sub>2</sub>OH, N-Et-Phe(4-F)-N-Me-Val-N-Me-Tyr(3-tBu)-NHCH<sub>2</sub>OH, N-Et-Phe(4-F)-N-Me-Val-N-Me-Tyr(3-tBu)-NHCH<sub>2</sub>OH, Phe(4-F)-N-Me-Val-N-Et-Tyr(3-tBu)-NHCH<sub>2</sub>OH, Phe(4-F)-N-Me-Val-N-Et-Tyr(3-tBu)-NHEt, N-Me-Phe(4-F)-N-Me-Val-N-Et-Tyr(3-tBu)-NHEt

- tBu)-NHEt, N-Et-Phe(4-F)-N-Me-Val-N-Et-Tyr(3-tBu)-NHEt,
  Phe(4-F)-N-Me-Val-N-Et-Tyr(3-tBu)-NHCH<sub>2</sub>OH, N-Me-Phe(4-F)N-Me-Val-N-Et-Tyr(3-tBu)-NHCH<sub>2</sub>OH, N-Et-Phe(4-F)-N-Me-ValN-Et-Tyr(3-tBu)-NHCH<sub>2</sub>OH, Phe(4-F)-N-Me-Val-N-Me-Tyr(3-tBu)-NHCPr, and Phe(4-F)-N-Me-Val-Tyr(3-tBu)-NHnPr Phe(4-
- or a hydrate or pharmaceutically acceptable salt thereof.

  24. A medicine containing the compound according to any
  - 25. A motilin receptor antagonist containing the compound according to any one of claims 1-23.

one of claims 1-23 as an active ingredient

- 26. A gastrointestinal motility suppressor agent containing the compound according to any one of claims 1-23 as an active ingredient
- 27. A therapeutic of hypermotilinemia containing the
  25 compound according to any one of claims 1-23 as an active ingredient.
  - 28. A compound of Formula (4):

F)-N-Me-Val-Tyr(3-tBu)-NHiPr;

wherein

Cy,  $R_6$ ,  $R_8$ ,  $R_9$ ,  $R_{20}$ ,  $R_{10}$ ,  $R_{12}$ ,  $R_{13}$ , X and Y are as defined in claim 1;

 $R_7$ ' is hydrogen, straight-chained or branched  $C_1$  alkyl optionally having at least one protected substituent, amino optionally having at least one protected substituent or protected hydroxy; and

 $R_{11}$ " is hydrogen, optionally substituted straight10 chained or branched  $C_{1-3}$ alkyl, -CO-N( $R_{14}$ ) $R_{15}$ , wherein  $R_{14}$  and  $R_{15}$  are as defined in claim 1, carboxyl, straight-chained
or branched  $C_{1-3}$ alkyl having a protected amino or an
optionally substituted heterocyclic ring;
or a hydrate or pharmaceutically acceptable salt thereof.

15 29. A compound of Formula (5):

wherein:

20

Cy,  $R_6$ ,  $R_8$ ,  $R_9$ ,  $R_{20}$ ,  $R_{10}$ ,  $R_{12}$ ,  $R_{13}$ , X and Y are as defined in claim 1;

 $R_7$ " is hydrogen, straight-chained or branched  $C_{1-3}$ alkyl optionally having at least one optionally protected substituent, amino optionally having at least one optionally protected substituent or optionally



protected hydroxy; and

 $R_{11}{}^{\prime}$  is hydrogen, straight-chained or branched  $C_{1.}$   $_{3}$  alkyl optionally having at least one protected substituent, -CO-N(R\_{14})R\_{15} wherein R\_{14} and R\_{15} are as defined in claim 1, carboxyl or an optionally substituted heterocyclic ring;

or a hydrate or pharmaceutically acceptable salt thereof.

30. A compound of Formula (6):

10 wherein:

 $R_{\rm 8}$  ,  $R_{\rm 9}$  ,  $R_{\rm 20}$  ,  $R_{\rm 10}$  ,  $R_{\rm 12}$  ,  $R_{\rm 13}$  and Y are as defined in claim 1;

 $P_1$  is hydrogen or a protecting group of amine; and  $R_{11}$ ''' is hydrogen, optionally substituted straight-chained or branched  $C_{1-3}$ alkyl,  $-CO-N(R_{14})R_{15}$  wherein  $R_{14}$  and  $R_{15}$  are as defined in claim 1, carboxyl, straight-chained or branched  $C_{1-3}$ alkyl having protected amino or an optionally substituted heterocyclic ring; or a hydrate or pharmaceutically acceptable salt thereof.

20 31. A compound of Formula (7):

wherein:

Cy,  $R_6$ ,  $R_8$ ,  $R_9$ ,  $R_{20}$  and X are as defined in claim 1;  $R_7$ " is hydrogen, straight-chained or branched  $C_{1-}$  alkyl optionally having at least one optionally protected substituent, amino optionally having at least one

optionally protected substituent or optionally protected hydroxy; and

 $P_{\text{2}}$  is optionally protected carboxyl, formyl or methyl which has a leaving group;

or a hydrate or pharmaceutically acceptable salt thereof.

10 32. A compound of Formula (8):

$$P_{3} \sim N \qquad R_{11} \qquad (8)$$

wherein:

15

 $R_{10}$  and  $R_{13}$  are as defined in claim 1;

P<sub>3</sub> is hydrogen or a protecting group of amine;

 $R_{11}$ ''' is hydrogen, optionally substituted straight-chained or branched  $C_{1-3}$ alkyl, -CO-N( $R_{14}$ ) $R_{15}$  wherein  $R_{14}$  and  $R_{15}$  are as defined in claim 1, carboxyl, straight-chained or branched  $C_{1-3}$ alkyl having protected amino or an optionally substituted heterocyclic ring; and

20  $R_{12}$ ' is hydroxy or  $-OR_{16}$  wherein  $R_{16}$  is as defined in claim 1;

or a hydrate or pharmaceutically acceptable salt thereof.

33. A compound of Formula (9):



$$\begin{array}{c}
Cy \\
R_7
\end{array}$$

$$\begin{array}{c}
R_6 \\
P_4
\end{array}$$

$$\begin{array}{c}
(9)
\end{array}$$

wherein:

Cy and  $R_6$  are as defined in claim 1;

R<sub>7</sub>" is hydrogen, straight-chained or branched

C<sub>1-3</sub>alkyl optionally having at least one optionally protected substituent, amino optionally having at least one optionally protected substituent or optionally protected hydroxy; and

P<sub>4</sub> is optionally protected carboxyl, formyl or

10 methyl which has a leaving group;

or a hydrate or pharmaceutically acceptable salt thereof.

34. A compound of Formula (10):

$$P_{5} \xrightarrow{R_{8}} P_{6} \qquad (10)$$

wherein:

 $R_8$ ,  $R_9$  and  $R_{20}$  are as defined in claim 1;

 $\boldsymbol{P}_{\text{s}}$  is hydrogen or a protecting group of amine; and

 $\mbox{\sc P}_{6}$  is optionally protected carboxyl, formyl or methyl which has a leaving group;

or a hydrate or pharmaceutically acceptable salt thereof.

